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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,761	05/01/2002	Hans-Jorgen Henriksson	P 283699	9018

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EXAMINER

DEAN, RAYMOND S

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/936,761	Applicant(s) HENRIKSSON, HANS-JORGEN	
	Examiner Raymond S Dean	Art Unit 2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 February 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 - 25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>0205</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Examiner acknowledges amendment to Figure 1 of the drawings to include the legend "PRIOR ART" therefore the objection is withdrawn.
2. Applicant's arguments filed February 11, 2005 have been fully considered but they are not persuasive.

Examiner respectfully disagrees with Applicants assertion on Page 9 1st Paragraph of the Remarks "The Applicant respectfully submits that neither of the CPUs ...". The conventional applications of the PDA telephone of Ausems comprise PDA applications, which are controlled by the PDA engine (See Column 3 lines 8 – 11). The PDA engine also controls the functions of external devices such as computer systems and modems (See Column 3 lines 58 – 62).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 – 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Ausems et al. (US 6,434,403).

Regarding Claim 1, Ausems teaches a method for using a CPU memory of a mobile station as an interface for a plurality of applications that are external to the mobile station (Figure 2, Figure 3, Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer system, GPS, and short range communications) wherein applications program modules for the external applications are stored in a part of the CPU memory of a mobile station that is available after software that controls conventional functions of the mobile station has been stored (Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer system, GPS, and short range communications, which means that there will be space in memory for said conventional PDA applications and said external applications), whereby the CPU of the mobile station performs those functions that connect external devices to the radio section of the mobile station and in this way replaces a conventional external CPU as the interface between the external devices and the mobile station (Figure 2, shows the short range transceiver and GPS engine

coupled to the radio section, which is the wireless phone engine, thus an external GPS device such as a GPS satellite and an external short range device such as a Bluetooth device can be coupled to said wireless phone engine).

Regarding Claim 2, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches input and output (I/O) ports of the mobile station are connected directly to input and output ports of the external device by cables or in a wireless manner, whereby the mobile station is not continuously locked to the external device (Figure 2, Columns 3 lines 58 – 62).

Regarding Claim 3, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches the CPU has an interface to each external device and its application (Figure 2, Figure 3, Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer system, GPS, and short range communications).

Regarding Claim 4, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches one of the external devices is a position-determining device for determining the position of the mobile station (Column 7 lines 32 – 36).

Regarding Claim 5, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches one of the external devices is a measurement device for measurement of at least one measurable parameter (Column 9 lines 5 – 9, in order for the PDA telephone to control the heating and ventilation system said PDA telephone

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must control the thermostat, which is a measuring and control unit for said heating and ventilation systems).

Regarding Claim 6, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches one of the external devices is a navigation device for navigation of a vehicle or person (Column 7 lines 32 – 36, the GPS system keeps track of the position of the PDA telephone thus there can be a determination of direction or course of said PDA telephone).

Regarding Claim 7, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches one of the external devices is an alarm for generating an alarm in a situation that requires an alarm (Column 9 lines 5 – 9).

Regarding Claim 8, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches one of the external devices is a monitoring device for monitoring conditions (Column 8 lines 63 – 67, the sensors monitor the fingerprints of prospective users).

Regarding Claim 9, Ausems teaches all of the claimed limitations recited in Claim

1. Ausems further teaches the external devices are specific to a customer with customized applications program modules, whereby the customized applications program modules have been determined by the user and programmed in during ordering of the mobile station, and whereby tailoring of the mobile station is achieved according to the requirements of the customer (Column 3 lines 14 – 21, the PDA telephone can have enhanced features which means that said PDA telephone can be configured according to a particular user's preference).

Regarding Claim 10, Ausems teaches all of the claimed limitations recited in Claim 9. Ausems further teaches the applications program modules of the external devices can be erased and replaced by new applications program modules specific for the customer by reprogramming free modules (Column 3 lines 14 – 21, there are a plurality of enhanced features that are optional to the user thus giving said user the flexibility to remove and add said enhanced features).

Regarding Claim 11, Ausems teaches all of the claimed limitations recited in Claim 1. Ausems further teaches the CPU is an IC circuit that includes a fixed number of modules for external applications (Figure 2, Figure 3, Column 3 lines 14 – 21, Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer system, GPS, and short range communications, which means that said CPU will provide a space in memory for each of said external applications such that said CPU can interface with the external devices that correspond to said external applications).

Regarding Claim 12, Ausems teaches a mobile station with a CPU memory as an interface for a plurality of applications that are external to the mobile station (Figure 2, Figure 3, Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer

system, GPS, and short range communications) comprising: applications program modules storable in the CPU memory for the external applications, which are stored in a part of the CPU memory of a mobile station that is available after software that controls conventional functions of the mobile station has been stored (Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer system, GPS, and short range communications, which means that there will be memory space in the ROM for said conventional PDA applications and said external applications), and the CPU performs those functions that connect external devices to a radio section of the mobile station and in this way the CPU replaces a conventional external CPU as an interface between the external devices and the mobile station (Figure 2, shows the short range transceiver and GPS engine coupled to the radio section, which is the wireless phone engine is the radio section, thus an external GPS device such as a GPS satellite and an external short range device such as a Bluetooth device can be coupled to said wireless phone engine).

Regarding Claim 13, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches input and output ports of the mobile station are connected directly to input and output ports of the external device by cables or in a wireless manner, whereby the mobile station is not continuously locked to the external devices (Figure 2, Columns 3 lines 58 – 62).

Regarding Claim 14, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches the CPU has an interface to each external device and its application (Figure 2, Figure 3, Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer system, GPS, and short range communications, which means that said CPU will be able to interface with said modem, computer system, GPS devices, and short range devices).

Regarding Claim 15, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches one of the external devices is a position-determining device for determining the position of the mobile station (Column 7 lines 32 – 36).

Regarding Claim 16, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches one of the external devices is a measurement device for measurement of at least one measurable parameter (Column 9 lines 5 – 9, in order for the PDA telephone to control the heating and ventilation system said PDA telephone must control the thermostat, which is a measuring and control unit for said heating and ventilation systems).

Regarding Claim 17, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches one of the external devices is a navigation device for navigation of a vehicle or person (Column 7 lines 32 – 36, the GPS system keeps track

of the position of the PDA telephone thus there can be a determination of direction or course of said PDA telephone).

Regarding Claim 18, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches one of the external devices is an alarm for generating an alarm in a situation that requires an alarm (Column 9 lines 5 – 9).

Regarding Claim 19, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches one of the external devices is a monitoring device for monitoring conditions (Column 8 lines 63 – 67, the sensors monitor the fingerprints of prospective users).

Regarding Claim 20, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches the external devices are specific to the customer with customized applications program modules, whereby the customized applications program modules have been determined by the customer and programmed in during ordering of the mobile station, and whereby tailoring of the mobile station is achieved according to the requirements of the customer (Column 3 lines 14 – 21, the PDA telephone can have enhanced features which means that said PDA telephone can be configured according to a particular user's preference).

Regarding Claim 21, Ausems teaches all of the claimed limitations recited in Claim 20. Ausems further teaches the applications program modules of the external devices can be deleted and replaced by new applications program modules specific for the customer by reprogramming free modules (Column 3 lines 14 – 21, there are a

plurality of enhanced features that are optional to the user thus giving said user the flexibility to remove and add said enhanced features).

Regarding Claim 22, Ausems teaches all of the claimed limitations recited in Claim 12. Ausems further teaches the CPU is an IC circuit that includes a fixed number of modules for the external applications (Figure 2, Figure 3, Column 3 lines 14 – 21, Column 3 lines 58 – 62, Column 5 lines 37 – 41, Column 6 lines 23 – 25, Column 7 lines 53 – 64, the CPU of the PDA engine is the control processor for the PDA telephone thus said CPU controls the conventional PDA applications and the interfacing with the external applications such as the external modem, computer system, GPS, and short range communications, which means that said CPU will provide a space in memory for each of said external applications such that said CPU can interface with the external devices that correspond to said external applications).

Regarding Claim 23, Ausems teaches in a mobile station having a radio section for sending messages, a CPU and a CPU memory for controlling the function of the mobile station (Column 5 lines 55 – 65, the functions of the PDA telephone comprise wireless phone functions and PDA functions), and a first I/O port for connection to external devices (Column 3 lines 58 – 60), a method for using the CPU memory as an interface for a plurality of applications external to the mobile station and for the mobile station comprising: storing an application program in a CPU memory module that is available after software that controls conventional functions of the mobile station has been stored (Figure 2, Column 5 lines 55 – 65, the short range transceiver is coupled to the wireless phone engine thereby enabling wireless phone engine to control the short

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range transceiver thus there will be a short range application stored in the CPU of the wireless phone engine); controlling functions of the radio section by means of the CPU (Column 5 lines 55 – 65); and performing functions that connect the external device to the radio section by means of the CPU (Figure 2, Column 5 lines 55 – 65, the short range transceiver is coupled to the wireless phone engine thereby enabling the wireless phone engine to control the short range transceiver thus there will be a short range application stored in the CPU of the wireless phone engine, the only way that an external short range wireless device can connect to the PDA telephone is through the control of the short range transceiver by the wireless phone engine).

Regarding Claim 24, Ausems teaches a method for using a mobile station comprising a CPU, a CPU memory and a radio portion (Column 5 lines 55 – 65), the method comprising: storing a first instruction set in the CPU memory, wherein the first instruction set comprises instructions for controlling functions of the mobile station (Column 5 lines 55 – 65, the functions of the PDA telephone comprise wireless phone functions), storing a second instruction set in the CPU memory, wherein the second instruction set comprises instructions for controlling the radio portion (Column 5 lines 55 – 65); storing a third instruction set in the CPU memory, wherein the third instruction set comprises instructions for controlling at least one external device (Figure 2, Column 5 lines 55 – 65, the short range transceiver is coupled to the wireless phone engine thereby enabling wireless phone engine to control the short range transceiver thus there will be a short range application stored in the CPU of the wireless phone engine, the only way that an external short range wireless device can connect to the PDA telephone

is through the control of the short range transceiver by the wireless phone engine thus the wireless phone engine will control the connection between the PDA telephone and the external short range device); establishing an interface between the mobile device and the at least one external device; and executing the third instruction set by the CPU, thereby exercising control over the at least one external device (Figure 2, Column 5 lines 55 – 65, the short range transceiver is coupled to the wireless phone engine thereby enabling the wireless phone engine to control the short range transceiver thus there will be a short range application stored in the CPU of the wireless phone engine,, the only way that an external short range wireless device can connect to the PDA telephone is through the control of the short range transceiver by the wireless phone engine thus the wireless phone engine will control the connection between the PDA telephone and the external short range device).

Regarding Claim 25, Ausems teaches a mobile station, comprising: a CPU (Column 5 lines 55 – 65); a radio portion operably connected to the CPU (Figure 3, Column 5 lines 55 – 65); a first CPU memory portion operably connected to the CPU for storing a first instruction set that controls functions of the mobile station (Column 5 lines 55 – 65, the functions of the PDA telephone comprise wireless phone functions); a second CPU memory portion operably connected to the CPU for storing a second instruction set that controls the radio portion (Column 5 lines 55 – 65); and a third CPU memory portion operably connected to the CPU for storing a third instruction set that controls at least one external device (Figure 2, Column 5 lines 55 – 65, the short range transceiver is coupled to the wireless phone engine thereby enabling wireless phone

engine to control the short range transceiver thus there will be a short range application stored in the CPU of the wireless phone engine, the only way that an external short range wireless device can connect to the PDA telephone is through the control of the short range transceiver by the wireless phone engine thus the wireless phone engine will control the connection between the PDA telephone and the external short range device), wherein, during operation, an interface is established between the mobile device and the at least one external device, and wherein, during operation, the third instruction set is executed by the CPU, thereby exercising control over the at least one external device (Figure 2, Column 5 lines 55 – 65, the short range transceiver is coupled to the wireless phone engine thereby enabling wireless phone engine to control the short range transceiver thus there will be a short range application stored in the CPU of the wireless phone engine, the only way that an external short range wireless device can connect to the PDA telephone is through the control of the short range transceiver by the wireless phone engine thus the wireless phone engine will control the connection between the PDA telephone and the external short range device).

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond S Dean whose telephone number is 571-272-7877. The examiner can normally be reached on 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Raymond S. Dean
May 5, 2005


NAY MAUNG

SUPERVISORY PATENT EXAMINER